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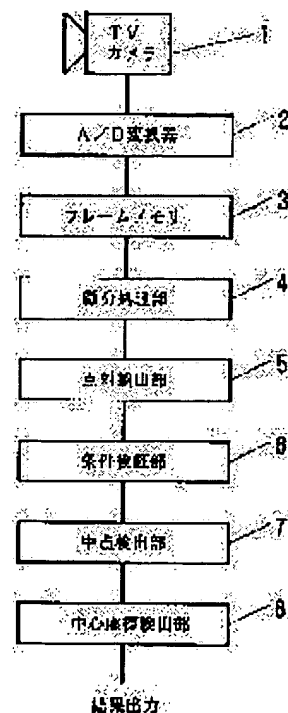
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## (54) OBJECT RECOGNITION METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To locate accurately the typical point when the middle point of an object to be recognized in an image is to be decided, by detecting the edges of the object and the background with good reproducibility.

SOLUTION: A TV camera 1 picks up the image of an object concerned whose boundary line of interest has such as polygonal shape which is point symmetrical or has at least two sets of opposing edge members that are parallel, and the obtained variable density image is accommodated in a frame memory 3. A differentiation processing part 4 detects the varying point of the differential about each picture element of this image as the edge of the object to be acknowledged, and the edge direction capable of being specified is determined for each point on the edge. A point couple extraction part 5 extracts two points to give the same edge direction on the edge, and a middle point sending part 7 decides the middle point of the point couple, and a center coordinates sensing part 8 prepares a histogram about the coordinates for the middle point of point couple and adopts the coordinate values giving the maximum frequency in the histogram as the coordinates for the typical point of the object acknowledged.



## LEGAL STATUS

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